

Functional Requirements

Account Creation

Tag	Requirement Description
REQ-1	A Public User (PU) must be able to create a user account with the application.
REQ-1.1	A PU must be able to access the homepage of the application.
REQ-1.1.1	The login page must contain an "Account" button.
REQ-1.1.2	A PU must be able to access the "Account" button.
REQ-1.1.3	A PU must be redirected to a signup page after clicking the "Create a new account" link.
REQ-1.2	A PU must be able to enter a valid email address.
REQ-1.2.1	The email address must have a valid format which consists of a username followed by an '@' symbol and a domain name. E.g. xyz@domain.com.
REQ-1.2.1.1	If the email address does not comply with the format stated in REQ-1.2.1, the application will inform the PU that the email address entered is invalid.
REQ-1.3	A PU must be able to enter a valid password.
REQ-1.3.1	A PU must type his/her password twice, once in the 'Password' field and once in the "Retype Password" field
REQ-1.3.1.1	If the password in the "Retype Password" field does not match the 'Password' field, the application must inform the PU that the passwords do not match.
REQ-1.3.2	A password must be at least twelve (12) characters long and consist of at least one (1) uppercase letter, one (1) lowercase letter, one (1) number, and one(1) special character.
REQ-1.3.2.1	If the password entered does not comply with the complexity rules in REQ-1.3.2, the application must inform the PU that the password is too weak and request the PU to re-enter another password.
REQ-1.4	The PU must tick the "Accept Terms and Conditions" checkbox of the application.
REQ-1.5	The PU must click the "Create an account" after completing the form.

REQ-1.5.1	The PU is unable to click “Create an account” if the email address provided is invalid.
REQ-1.5.2	The PU is unable to click “Create an account” if the password provided is invalid.
REQ-1.5.3	The PU is unable to click “Create an account” if the “Terms and Conditions” tick box is not ticked according to REQ-1.4.
REQ-1.6	The Application must inform the PU of the status of the account creation through a pop-up message.
REQ-1.6.1	If the account creation is successful, the Application must inform the PU that the account creation is successful.
REQ-1.6.1.1	The application must display a “Continue to Login” button in the pop-up message.
REQ-1.6.1.1.1	The application must redirect the PU to the login page when the Account Holder (AH) clicks “Continue to Login”.
REQ-1.6.2	If the account creation is unsuccessful, the application must inform the PU that the account creation is unsuccessful.
REQ-1.6.2.1	The application must display a “Please Try Again” button in the pop-up message.
REQ-1.6.2.1.1	The application must close the pop-up message when the Account Holder clicks “Try again”.
REQ-1.6.2.1.2	The application must clear the “Password” field.
REQ-1.6.2.1.3	The application must clear the “Retype Password” field.
REQ-1.6.2.1.4	The application must clear the checkbox.
REQ-1.6.2.1.5	The PU must be able to edit his/her email address.
REQ-1.6.2.1.6	The PU must be able to re-enter his/ her password in both the “Password “ and “Retype Password” fields.
REQ-1.6.2.1.7	The PU must be able to check the checkbox again.
REQ-1.6.2.1.8	The PU must be able to re-attempt account creation by clicking “Create an Account”.

Logging in

<u>Tags</u>	<u>Requirements</u>
REQ-2	The Account Holder (AH) must be able to log in to the application.
REQ-2.1	An AH must be able to access the homepage of the application.
REQ-2.2	An AH must be able to access the “Log In” button.
REQ-2.3	After clicking the “Log in” button, the application must be able to redirect the AH to the account login page.
REQ-2.4	An AH must be able to enter his/her email address.
REQ-2.5	An AH must be able to enter his/her password.
REQ-2.6	An AH must only be able to click “Login” after completing the form.
REQ-2.7	An AH must only be able to click “Login” after he/she entered his/her email address.
REQ-2.8	An AH must be able to click “Login” after he/she entered his/her password.
REQ-2.9	Upon successful logging in, an AH must be directed to his/her homepage.
REQ-2.10	Should the login fail, the application must notify the AH through a pop-up message “Login failed due to incorrect email address or password”.
REQ-2.10.1	The application must not explicitly inform the AH which information is incorrect.
REQ-2.10.2	The Application must display a “Please Re-enter Your Email and Password” pop-up message to the AH.
REQ-2.11	The Application must close the “Please Enter Your Email and Password” pop-up message after the AH clicks the “X” icon on the top right of the pop-up message.
REQ-2.11.1	The password and email field must be cleared
REQ-2.11.2	The AH must be able to reenter his/her email address.

REQ-2.11.3	The AH must be able to reenter his/her password.
REQ-2.11.4	The AH must be able to reattempt logging in by clicking "Login".

Changing password

<u>Tags</u>	<u>Requirements</u>
REQ-3.1	Account Holders (AH) must be able to change their passwords.
REQ-3.2	AH must be able to login into their respective accounts in the application
REQ-3.3	After logging in, AH must be able to click "Account" on their Homepage
REQ-3.4	After clicking "Account", AH must be redirected to the Account Settings page.
REQ-3.5	AH must be able to click "Change Password" on the Account settings page.
REQ-3.5.1	The application must display a form to change the password.
REQ-3.5.2	The form must include the fields "Current Password", "New Password" and "Retype New Password".
REQ-3.5.2.1	AH must be able to type in "Current Password".
REQ-3.5.2.2	AH must be able to type in "New Password".
REQ-3.5.2.3	AH must be able to type in "Retype New Password".
REQ-3.5.2.4	AH must not reuse a previously used password.
REQ-3.5.2.5	AH must be able to type the same password for both the "New Password" and "Old Password" fields i.e. Passwords must match.

REQ-3.6	AH must be able to click the “Submit” button after completing the form.
REQ-3.6.1	AH must not be able to click the “Submit” button if passwords from the “New Password” and “Retype New Password” fields do not match
REQ-3.6.2	AH must not be able to click the “Submit” button if the password in the “Current Password” field does not match their actual current password.
REQ-3.7	Application must notify AH that the password reset is successful through a pop-up message “Password Successfully Changed” after clicking the “Submit” button.

Resetting password (Forgot Password)

Tags	Requirement Description
REQ-4	Account Holder (AH) must be able to reset the password.
REQ-4.1	AH must be able to click the “Forgot Password” link on the login page
REQ-4.2	Application must be able to redirect AH to the password reset page after clicking “Forgot Password”.
REQ-4.3	AH must be able to enter his/her email address on the password reset page.
REQ-4.3.1	AH must be able to click the “Reset Password” after entering their email.
REQ-4.4	Application must be able to inform AH that a password reset email has been sent to the email in REQ-1.3.
REQ-4.4.1	The application must present a pop-up message “Password reset email has been sent” after “Reset Password” is clicked.
REQ-4.4.2	The password reset email must contain a link that will redirect the AH to the password reset page.
REQ-4.4.3	An AH must be able to be redirected to the password reset page after clicking on the password reset link.
REQ-4.5	On the password reset page, an AH must be able to enter his/her new password.
REQ-	Password requirements will follow that of REQ-1.3.1.1 to REQ-1.3.2.1.

4.5.1	
REQ-4.6	An AH must be able to enter his/her password under the “Enter New Password” field.
REQ-4.7	An AH must be able to enter his/her new password under the “Retype New Password” field.
REQ-4.8	AH must enter the same password for both the “Enter New Password” and “Retype New Password” fields.
REQ-4.9	AH must not be able to enter his/her new password if the password reset request is no longer valid.
REQ-4.9.1	Application must inform the AH that his/her password reset email has expired.
REQ-4.10	AH must be able to click “Submit” after completing the form.
REQ-4.10.1	AH must not be able to click “Submit” if the password under “Enter New Password” and “Retype New Password” is not the same.
REQ-4.10.2	AH must not be able to click “Submit” if either “Enter New Password” or “Retype New Password” is empty.
REQ-4.11	The Application must inform the AH that the password reset is successful through a pop-up message “Password Reset Successful”.

Selecting Dietary Restrictions

<u>Tags</u>	<u>Requirement Description</u>
REQ-5	An Account Holder (AH) must be able to select dietary restrictions of their choosing.
REQ-5.1	An AH must be able to access the homepage before selecting dietary restrictions.
REQ-5.2	The application must display icons of dietary restrictions.
REQ-5.2.1	The application must display the Vegan icon with a tick box below.
REQ-5.2.2	The application must display the Vegetarian icon with a tick box below.
REQ-5.2.3	The application must display the lactose-free icon with a tick box

	below.
REQ-5.2.4	The application must display the gluten-free icon with a tick box below.
REQ-5.3	An AH must be able to tick the dietary restriction from REQ-5.2.
REQ-5.4	After ticking any dietary restriction, the live map on the homepage must be updated with icons of restaurants that adhere to REQ5.2.1 to REQ 5.2.4
REQ-5.4.1	If no dietary restriction was selected, all restaurants within the vicinity will be displayed on the live map.

Searching Restaurants

<u>Tags</u>	<u>Requirements Description</u>
REQ-6	The Account Holder (AH) must be able to search for restaurants based on distance, ratings, selected Dietary Restriction (DR), and restaurant name.
REQ-6.1	AH must be able to click on the “Search Restaurants” button on the homepage.
REQ-6.2	The AH must be able to select either one (1) of “Distance” or “Rating” (AH can select both or none as well).
REQ-6.2.1	If “Distance” is selected by AH, the application must sort restaurants from nearest to furthest based on DR.
REQ-6.2.2	If “Ratings” is selected by AH, the application must sort restaurants from the highest ratings to the lowest ratings based on DR.
REQ-6.2.3	If both “Distance” and “Ratings” are selected by AH, the application must sort restaurants from nearest to farthest and highest ratings to lowest ratings based on DR.
REQ-6.3	AH must be able to enter the restaurant name in the search bar.
REQ-6.3.1	If a restaurant name is entered, the search bar would display a list of restaurants that matches the entered name.

Viewing Community Page

Tags	Requirement Description
REQ-7	Account Holder (AH) must be able to view the community page.
REQ-7.1	AH must log in first before viewing the community page.
REQ-7.2	AH must be able to click "View Community Page" at their homepage.
REQ-7.3	After clicking "View Community Page", the application must be able to redirect AH to the "Community Page" webpage.
REQ-7.4	Application must be able to display posts from different users in the "Community Page" webpage.

Sharing On Community Page

Tags	Requirement Description
REQ-8	Account Holder(AH) must be able to share a post on the community page.
REQ-8.1	AH must be able to click the "New Post" button on the community page.
REQ-8.2	Application must be able to display a form for the AH to fill in their post.
REQ-8.2.1	AH must be able to attach images in the form.
REQ-8.2.2	AH must be able to type in characters in the form.
REQ-8.2.3	AH must be able to attach video files in the form.
REQ-8.3	AH must fill in the "Title" field of the form
REQ-8.4	AH must not be able to click "POST!" if the "Title" field of the form is empty.

REQ-8.5	AH must only be able to click “POST!” if at least one (1) requirement from REQ-8.2.1 to REQ-8.2.3 is fulfilled.
REQ-8.6	After clicking “POST!”, a pop-up message “Story has been successfully shared !” must be shown to the AH by the application.
REQ-8.6.1	AH must be able to close the pop-up message in REQ-8.6
REQ-8.7	AH must be able to be redirected back to the “Community Page” after REQ-8.6.1.

Non-Functional Requirements

Performance Requirements

NREQ-1	The Application must take a maximum of three (3) seconds to respond to user action.
NREQ-2	The Application must only perform updates during off-peak hours.

Software Quality Attributes

Tags	Requirement Description
NREQ-3	The code for the application must be written in a clear and neat manner.
NREQ-4	Description for each function must be included for every function in the form of comments.